

TEACHING PLAN

A. GENERAL INFORMATION

Name of the Faculty : J.Suganya
Department : Software Development in
Multimedia and Animation
Programme : B.Voc
Programme code : Core Course-III
Name of the Paper : Discrete Mathematics
Lecture Hours/Practical Hours : 5 Hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">The course objective is to provide students with an overview of discrete mathematics. Students will learn about topics such as logic and proofs, sets and functions, probability, recursion, graph theory, matrices, Boolean algebra and other important discrete math concepts.	<p>On Completion of the Course, Students should be able to do</p> <ul style="list-style-type: none">Use logical notationPerform logical proofsApply recursive functions and solve recurrence relationsDetermine equivalent logic expressionsDescribe useful standard library functions, create functions, and declare parameters	<ul style="list-style-type: none">Chalk and TalkQuizSeminarE-ContentE-Module

C. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practica l Hrs	Remarks
Unit I	MEASURES OF AVERAGES AND DISPERSIONS <ul style="list-style-type: none"> • Sets and Propositions • Definition and representation of set • Basic set operations • Venn diagrams • Set Identities • Principle of Inclusion • Exclusion. • Propositions: Introduction • Well formed formulas – • Truth table - Tautology, Contradiction, Contingency • Propositional Equivalences • Logic- Connectives - Predicates and Quantifiers. 	21.02.22 to 26.02.22 28.02.22 to 12.03.22 14.03.22 to 26.03.22 28.03.22 to 04.04.22	15Hrs	NIL	3 Hrs Assessment
Unit II	<ul style="list-style-type: none"> • Functions and Relations • Definition and examples - One-to-one and onto functions • Permutations. • Relations: Definition and examples • Binary Relations - Properties • Equivalence and Partial Ordering – • Representation of relation in matrix, by Digraph • Closure operations on relations. 	05.04.22 to 09.04.22 11.04.22 to 13.04.22 18.04.22 to 21.04.22	15Hrs	NIL	3 Hrs Assessment
	<ul style="list-style-type: none"> • Algebraic Systems: 	22.04.22 to	15Hrs	NIL	3 Hrs Assessment

Unit III	<ul style="list-style-type: none"> Definition and examples Semi groups and monoids: Definitions and examples, Subsemigroups and Submonoids- Homomorphism of Semigroups and Monoids. Groups: Definitions and examples. 	30.04.22 04.05.22 to 11.05.22			
Unit IV	<p>Graph Theory: Introduction - Definition and Examples - Edges sequence, walks, paths and circuits - Directed graph- Subgraph and operations on the graph - Isomorphic graphs - Connected - Matrix representation of Graphs.</p>	12.05.22 to 23.05.22	15Hrs	NIL	3 Hrs Assessment
Unit V	<ul style="list-style-type: none"> Trees: Introduction - Properties - Special Classes of Trees-Definition of spanning tree - minimal spanning tree. 	24.05.22 to 31.05.22 01.06.22 To 11.06.22	15Hrs	NIL	3 Hrs Assessment

D. ACTIVITIES

Activities Name	Details
Unit - 1	
Test	<ul style="list-style-type: none"> Well formed formulas - truth table - Tautology, Contradiction, Contingency
Assignment	<ul style="list-style-type: none"> Propositional Equivalences - Logic- Connectives - Predicates and Quantifiers.
Quiz	<ul style="list-style-type: none"> Sets and Propositions: Definition and representation of sets - basic set operations
Seminar	<ul style="list-style-type: none"> Principle of Inclusion - Exclusion.
Mentor/Mentee Meeting	<ul style="list-style-type: none"> Week end
Unit - 2	
Test	<ul style="list-style-type: none"> Properties - Equivalence and Partial

	Ordering, representation of relation in matrix, by Digraph - closure operations on relations.
Assignment	<ul style="list-style-type: none"> • Permutations. Relations: Definition and examples - Binary Relations
Quiz	<ul style="list-style-type: none"> • Functions and Relations: Definition and examples
Seminar	<ul style="list-style-type: none"> • Permutations, Relations
Mentor/Mentee Meeting	<ul style="list-style-type: none"> • Week end
Unit - 3	
Test	<ul style="list-style-type: none"> • Groups: Definitions and examples.
Assignment	<ul style="list-style-type: none"> • Homomorphism of Semigroups and Monoids
Quiz	<ul style="list-style-type: none"> • Algebraic Systems: Definition and examples, Semi groups and monoids
Seminar	<ul style="list-style-type: none"> • Subsemigroups and Submonoids
Mentor/Mentee Meeting	<ul style="list-style-type: none"> • Week end
Unit - 4	
Test	<ul style="list-style-type: none"> • Graph Theory: Introduction - Definition and Examples
Assignment	<ul style="list-style-type: none"> • Edges sequence, walks, • paths and circuits
Quiz	<ul style="list-style-type: none"> • Directed graph • Subgraph • Operations on the graph
Seminar	<ul style="list-style-type: none"> • Isomorphic graphs - Connected - Matrix representation of Graphs.
Mentor/Mentee Meeting	<ul style="list-style-type: none"> • Week end
Unit - 5	
Test	<ul style="list-style-type: none"> • Trees: Introduction – • Properties
Assignment	<ul style="list-style-type: none"> • Special Classes of Trees
Quiz	<ul style="list-style-type: none"> • Definition of spanning tree

	<ul style="list-style-type: none">• Minimal spanning tree.
Seminar	<ul style="list-style-type: none">• Minimal spanning tree.
Mentor/Mentee Meeting	<ul style="list-style-type: none">• Week end



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TEACHING PLAN

E. GENERAL INFORMATION

Name of the Faculty : J.Suganya
Department : Software Development in
Multimedia and Animation
Programme : B.Voc
Programme code : SSD
Name of the Paper : Life Skills
Lecture Hours/Practical Hours : 2 Hours

F. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
This course is designed to enhance the employability and maximize the potential of the students by introducing them to the principles that underlay personal and professional success, and help them acquire the skills needed to apply these principles in their lives and careers	On Completion of the Course, Students should be able to do <ul style="list-style-type: none">• Define and Identify different life skills required in personal and professional life• Develop an awareness of the self and apply well-defined techniques to cope with emotions and stress.• Take part in group discussions• Use appropriate thinking and problem solving techniques to solve new problems• Understand the basics of teamwork and leadership	<ul style="list-style-type: none">• Chalk and Talk• Quiz• Seminar• E-Content• E-Module

G. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I	<p>Overview of Life Skills: Meaning and significance of life skills, Life skills identified byWHO: Selfawareness,Empathy, Critical thinking, Creative thinking, Decision making, problem solving, Effective communication, interpersonal relationship, coping with stress, coping with emotion.Life skills for professionals: positive thinking, right attitude, attention to detail, having the big picture, learning skills, research skills, perseverance, setting goals and achieving them, helping others, leadership, motivation, self-motivation.</p>	21.02.22 to 26.02.22 28.02.22 to 12.03.22	15Hrs	NIL	3 Hrs Assessment
Unit II	Self-awareness: definition, need for self-awareness; Coping With Stress and Emotions, HumanValues, tools and techniques of SA: questionnaires, journaling, reflective questions, meditation, mindfulness, psychometric tests,	14.03.22 to 26.03.22 28.03.22 to 04.04.22	15Hrs	NIL	3 Hrs Assessment

Unit III	<p>feedback.Stress Management: Stress, reasons and effects, identifying stress, stress diaries, the four A's of stress management, techniques, Approaches: action-oriented, emotion-oriented, acceptanceoriented, resilience, Gratitude Training, Coping with emotions: Identifying and managing emotions, harmful ways of dealing with emotions, PATH method and relaxation techniques.Morals, Values and Ethics:</p> <p>21st century skills: Creativity, Critical Thinking, Collaboration, Problem Solving, Decision Making,Need for Creativity in the 21st century, Imagination, Intuition, Experience, Sources of Creativity, Lateral Thinking, Myths of creativity, Critical thinking Vs Creative thinking, Functions of Left Brain &Right brain, Convergent & Divergent Thinking, Critical reading & Multiple Intelligence.</p> <p>Steps in problem solving: Problem Solving Techniques, Six Thinking Hats, Mind Mapping, ForcedConnections.</p>	05.04.22 to 09.04.22 11.04.22 to 13.04.22 18.04.22 to 21.04.22	15Hrs	NIL	3 Hrs Assessment
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	<p>Analytical Thinking, Numeric, symbolic, and graphic reasoning. Scientific temperament and Logical thinking.</p>				
Unit IV	<p>Group and Team Dynamics: Introduction to Groups: Composition, formation, Cycle, thinking, Clarifying expectations, Problem Solving, Consensus, Dynamics techniques, Group vs Team, Team Dynamics, and Virtual Teams. Managing team performance and managing conflicts, Entrepreneurship</p>	<p>22.04.22 to 30.04.22 04.05.22 to 11.05.22</p>	15Hrs	NIL	3 Hrs Assessment
Unit V	<p>Leadership: Leadership framework, entrepreneurial and moral leadership, vision, cultural dimensions. Growing as a leader, turnaround leadership, managing diverse stakeholders, crisis management. Types of Leadership, Traits, Styles, VUCA Leadership, Levels of Leadership, Transactional vs Transformational Leaders, Leadership Grid, Effective Leaders.</p>	<p>12.05.22 to 23.05.22 24.05.22 to 31.05.22 01.06.22 To 11.06.22</p>	15Hrs	NIL	3 Hrs Assessment

H. ACTIVITIES

Activities Name	Details
Unit - 1	
Test	<ul style="list-style-type: none"> Life skills identified by WHO
Assignment	<ul style="list-style-type: none"> Life skills for professionals
Quiz	<ul style="list-style-type: none"> positive thinking, right attitude, attention to detail, having the big picture, learning skills, research skills, perseverance, setting goals and achieving them, helping others, leadership, motivation, self-motivation, and motivating others, personality development
Seminar	<ul style="list-style-type: none"> IQ, EQ, and SQ
Mentor/Mentee Meeting	<ul style="list-style-type: none"> Week end
Unit - 2	
Test	<ul style="list-style-type: none"> Self-awareness Need for self-awareness; Coping With Stress and Emotions, HumanValues, Tools and techniques of SA
Assignment	<ul style="list-style-type: none"> Stress Management: Stress, reasons and effects, identifying stress, stress diaries The four A's of stress management, Approaches: action-oriented, emotion-oriented, acceptanceoriented, resilience, Gratitude Training
Quiz	<ul style="list-style-type: none"> PATH method and relaxation techniques. Morals, Values and Ethics: Integrity, Civic Virtue, Respect for Others, Living Peacefully. Caring, Sharing, Honesty, Courage, Valuing Time, Time management,
Seminar	<ul style="list-style-type: none"> Avoiding Procrastination, Sense of Engineering Ethics.
Mentor/Mentee Meeting	<ul style="list-style-type: none"> Week end

Unit - 3	
Test	<ul style="list-style-type: none"> • 21st century skills: Creativity, Critical Thinking, Collaboration, Problem Solving, Decision Making, • Need for Creativity in the 21st century
Assignment	<ul style="list-style-type: none"> • Imagination, Intuition, Experience, Sources of Creativity, Lateral Thinking, Myths of creativity, Critical thinking Vs Creative thinking
Quiz	<ul style="list-style-type: none"> • Functions of Left Brain & Right brain,
Seminar	<ul style="list-style-type: none"> • Convergent & Divergent Thinking, Critical reading & Multiple Intelligence.
Mentor/Mentee Meeting	<ul style="list-style-type: none"> • Week end
Unit - 4	
Test	<ul style="list-style-type: none"> • Group and Team Dynamics: Introduction to Groups: Composition, formation, Cycle, thinking
Assignment	<ul style="list-style-type: none"> • Clarifying expectations, Problem Solving, Consensus,
Quiz	<ul style="list-style-type: none"> • Dynamics techniques, Group vs Team, Team Dynamics,
Seminar	<ul style="list-style-type: none"> • Managing team performance and managing conflicts, Intrapreneurship.
Mentor/Mentee Meeting	<ul style="list-style-type: none"> • Week end
Unit - 5	
Test	<ul style="list-style-type: none"> • Leadership: Leadership framework, entrepreneurial and moral leadership, vision,
Assignment	<ul style="list-style-type: none"> • Cultural dimensions. Growing as a leader, turnaround leadership,
Quiz	<ul style="list-style-type: none"> • Managing diverse stakeholders, crisis management. Types of Leadership, Traits, Styles,

Seminar	<ul style="list-style-type: none">• Levels of Leadership, Transactional vs Transformational Leaders,
Mentor/Mentee Meeting	<ul style="list-style-type: none">• Week end



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